

# DIGITAL FABRICATION WORKSHOP

10 REDUCED  
INEQUALITIES



## MiDoRe: An assistive wearable for visually impaired musicians

Akhil Guthula, Diksha Singh, Divya Padmanabhan, Raaghavi S. & Sugandha Katoch

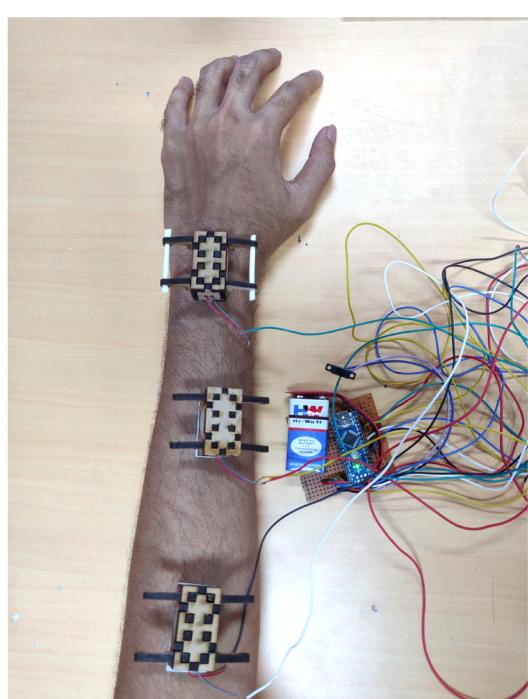


An assistive wearable device for the visually impaired, to learn, read and play the sheet music in real time.



### Context

Visually Impaired musicians and learners are forced to read Braille music, memorise a phrase, and practice that, making it difficult and time consuming for them. Our solution is to bridge the gap by creating a solution that would enable visually impaired musicians to feel the notes, thereby saving their time and reducing their dependency on memory.



### Solution

The musical notes are converted into Braille notes and sent to 6 vibrating modules on a device mimicking the Braille notation. The wearable is placed on the user's arm where they get the Braille notes in real time to play the instrument without having to memorise it from the sheet.

### Future Scope

The size of the wearable can be made smaller with smaller vibration motors. We want to include sharps and flats in notation. Moreover, there could be more songs that can be converted, stored and sent to the device.



MAKER'S  
ASYLUM™

IDC School of Design  
अभिकल्प विद्यालय



IIT Bombay